

Claims:

1. A method for manufacturing a color filter, comprising:
preparing a transparent substrate;
forming a black matrix having a plurality of apertures on the transparent substrate, the black matrix comprising an antireflection layer formed on the transparent substrate and a light-shielding layer formed on the antireflection layer, the antireflection layer comprising a first antireflection film having a first index of refraction, and a second antireflection film having a different second index of refraction; and
coating a color resin layer on the transparent substrate and the black matrix.
2. The method for manufacturing a color filter as claimed in claim 1, wherein the antireflection layer comprises chromium oxide and chromium nitride, and the light-shielding layer comprises chromium.
3. The method for manufacturing a color filter as claimed in claim 1, wherein the color resin layer comprises RGB (red, green, blue) resins.
4. The method for manufacturing a color filter as claimed in claim 3, wherein the RGB resins respectively fill each three contiguous apertures.
5. The method for manufacturing a color filter as claimed in claim 4, wherein a respective portion of each of the RGB resins at each aperture covers a

corresponding portion of the black matrix.

6. The method for manufacturing a color filter as claimed in claim 4, wherein respective portions of each of two adjoining RGB resins at two adjacent apertures cover a corresponding portion of the black matrix.
7. The method for manufacturing a color filter as claimed in claim 1, wherein the step of coating a color resin layer on the transparent substrate and the black matrix further comprises the steps of forming a first color resin sub-layer on the transparent substrate and the black matrix, and forming a second color resin sub-layer on the first color resin sub-layer.
8. The method for manufacturing a color filter as claimed in claim 7, wherein the second color resin sub-layer is offset from the first color resin sub-layer.
9. The method for manufacturing a color filter as claimed in claim 1, wherein the step of coating a color resin layer on the transparent substrate and the black matrix further comprises the steps of forming contiguous RGB (red, green, blue) color resin regions on the transparent substrate and the black matrix, and forming RGB color resin sub-regions in voids between adjacent RGB color resin regions.
10. The method for manufacturing a color filter as claimed in claim 9, wherein the RGB color resin regions correspond to respective apertures.

11. The method for manufacturing a color filter as claimed in claim 10, wherein the RGB color resin sub-regions correspond to respective portions of the black matrix between apertures.
12. A method for manufacturing a color filter, comprising:
preparing a transparent substrate;
forming a black matrix having a plurality of apertures on the transparent substrate; and
coating a color resin layer on the transparent substrate and the black matrix.
13. A method for manufacturing a liquid crystal display device, comprising:
preparing a transparent substrate;
forming a black matrix having a plurality of apertures on the transparent substrate;
coating a color resin layer on the transparent substrate and the black matrix;
forming an ITO (Indium Tin Oxide) layer on the color resin layer;
providing an electrode substrate having a TFT (Thin Film Transistor) layer formed on an inner surface thereof, and forming a cavity between the ITO layer and the TFT layer; and
filling a liquid crystal layer 35 in the cavity.